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NIPPON SODA CO *WO 9741118-A1
96.12.27 96JP-360066(+96JP-131170) *(97.11.06)* C07D 413/10, A01N 43/56

New 4-(1,2-isoxazol-5-yl)-benzoylpyrazole derivatives - are selective herbicides useful for e.g. corn and wheat (Jpn)

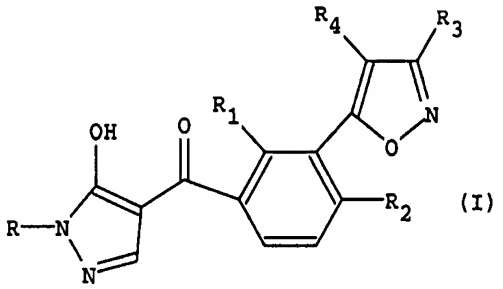
C98-013845 N(AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN) R(AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG)

Addnl. Data: ADACHI H, TANAKA K, YAMAGUCHI M, MIYAHARA O, KOGUCHI M, TAKAHASHI A, KAWANA T

97.02.10 97WO-JP00343, 96.11.13 96JP-317154

4-(1,2-Isoxazol-5-yl)-benzoylpyrazole derivatives and their salts are new.

C(7-E1, 14-V2B) .2



(I)

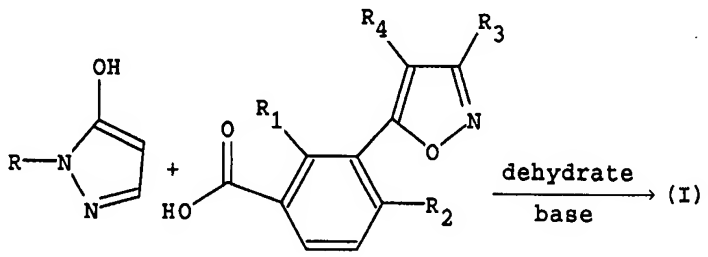
R_1 = 1-6C alkyl;
R_2 = halo, 1-6C alkylthio, 1-6C alkylsulphinyl or 1-6C alkylsulphonyl;
R_3, R_4 = H, 1-6C alkyl or 1-6C haloalkyl;
R = H or 1-4C alkyl.

USE

(I) are selective herbicides useful for corn and wheat.

WO 9741118-A+

PREPARATION



EXAMPLE

4-Methanesulphonyl-2-methyl-3-(3-methyl-1,2-isoxazol-5-yl)benzoyl chloride (0.17 g) in CH_2Cl_2 (2 ml) was added dropwise to 1-ethyl-5-hydroxypyrazole HCl (0.38 g) and NEt_3 (0.51 g) in CH_2Cl_2 (10 ml) and the mixture was stirred for 1 hour. Work-up gave 0.50 g of 1-ethyl-5-hydroxy-4-[4-methanesulphonyl-2-methyl-3-(3-methyl-1,2-isoxazol-5-yl)]-benzoylpyrazole, m.pt. 186-189 °C.

HERBICIDAL DATA

(I: R_1, R_3, R = Me; R_4 = H; R_2 = SO_2Et) at 63g/ha showed 100% control of *Echinochloa crus galli* and *Xanthium strumarium* with no phytotoxicity towards maize.(CBB)
(38pp1839DwgNo.0/0)
SR:AU9336481 AU9646655 AU9988130 EP282944 EP629623 JP2173 JP5515530 US4885022 US5468722 WO9318031 WO9626206